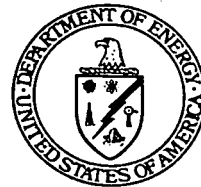


## Department of Energy

Ohio Field Office  
Fernald Area Office  
P. O. Box 538705  
Cincinnati, Ohio 45253-8705  
(513) 648-3155



2248

MAY 18 1999

Mr. James A. Saric, Remedial Project Manager  
U.S. Environmental Protection Agency  
Region V-SRF-5J  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590

DOE-0759-99

Mr. Tom Schneider, Project Manager  
Ohio Environmental Protection Agency  
401 East 5<sup>th</sup> Street  
Dayton, Ohio 45402-2911

Dear Mr. Saric and Mr. Schneider:

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE  
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY  
STUDY/CONSENT DECREE MONTHLY REPORT FOR THE PERIOD APRIL 1, 1999  
THROUGH APRIL 30, 1999**

This letter transmits the amended Consent Agreement Monthly Report for the period of April 1, 1999, through April 30, 1999. This report is formatted to reflect the proposal presented in the letter, DOE-0395-96, J. Reising to J. A. Saric and T. Schneider, "Phase VII Removal Actions and Reporting Requirements under the FEMP Legal Agreements," dated January 16, 1996, and agreed to by the U.S. Environmental Protection Agency (U.S. EPA) and Ohio Environmental Protection Agency (OEPA).

Please contact me at (513) 648-3139 if you have any questions.

Sincerely,

FEMP:Reising

Johnny W. Reising  
Fernald Remedial Action  
Project Manager

Enclosure

2248

MAY 18 1999

-2-

Mr. James A. Saric  
Mr. Tom Schneider

cc w/enclosure:

N. Hallein, EM-42, CLOV  
G. Jablonowski, USEPA-V, SRF-5J  
R. Beaumier, TPSS/DERR, OEPA-Columbus  
D. Sarno, FCAB  
V. Dastillung, FRESH  
P. Dunn, FRESH  
F. Barker, Tetra Tech  
D. Carr, FDF/52-2  
T. Hagen, FDF/65-2  
T. Walsh, FDF/65-2  
AR Coordinator, FDF/78

cc w/o enclosure:

A. Tanner, OH/FEMP  
F. Bell, ATSDR  
M. Schupe, HSI GeoTrans  
J. Harmon, FDF/90  
R. Heck, FDF/2  
S. Hinnefeld, FDF/31  
B. Irvine, FDF/65-2  
ECDC, FDF/52-7

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE  
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY  
STUDY/CONSENT DECREE MONTHLY REPORT APRIL 1 THROUGH APRIL 30, 1999**

**Introduction**

This report describes actions at the Fernald Environmental Management Project (FEMP) from April 1, 1999 through April 30, 1999. The monthly report has been revised to reflect the proposal presented in the letter, DOE-0395-96, J. Reising to J.A. Saric and T. Schneider, "Phase VII Removal Actions and Reporting Requirements under the FEMP Legal Agreements", dated January 16, 1996, and agreed to by USEPA and OEPA.

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE  
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY  
STUDY/CONSENT DECREE MONTHLY REPORT APRIL 1 THROUGH APRIL 30, 1999**

**OPERABLE UNIT 1 - WASTE PITS REMEDIAL ACTION PROJECT**

April 1999

- Enforceable Milestones Expected to be Completed
  - None
- Major Work Initiated/Continued/Completed
  - Completed revision of RA deliverables and resubmitted on April 2, 1999 to the Agencies for review and approval
  - Review of Rail Tender with CSXT/UPPR Railroads for waste shipments was completed by DOE/FDF
  - Continued with completion of remaining facilities
  - Continued training of FAT&LC personnel for full Operations
  - Completed SSR for Offsite Rail Operations
  - Initiated First Rail Shipment to Envirocare on April 26, 1999

May 1999 (Anticipated)

- Enforceable Milestones Expected to be Completed
  - None
- Major Work to be Initiated/Continued/Completed
  - Continue toward completion of remaining facilities
  - Continue training of FAT&LC personnel for full Operations

**OPERABLE UNIT 2 - ON-SITE DISPOSAL FACILITY AND SOIL CHARACTERIZATION AND EXCAVATION PROJECT**

**Additional OU2 soils-related activities reported under OU5/Soils Characterization and Excavation Project**

April 1999

- Enforceable Milestones
  - On-Site Disposal Facility (OSDF)
    - Begin construction of Cell 3
  - Soil Characterization and Excavation Project (SCEP)
    - None

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE  
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STUDY/CONSENT DECREE MONTHLY REPORT APRIL 1 THROUGH APRIL 30, 1999**

- Major Work to be Initiated/Continued/Completed
  - On-Site Disposal Facility
    - Issued failure analysis reports
    - Initiated installation of Interim Leachate Transmission line
    - Commenced clay screening in Borrow Area
  - Soil Characterization and Excavation Project (SCEP)
    - Await Agency comments regarding draft Fact Sheet and letter allowing the South Firing Range in-situ stabilization with OSDF disposal
    - Continue pre-certification activities regarding Area 2, Phase III RTRAK
    - Submitted Certification Design letter for the North area of Area 1, Phase II (Cell 3); collected samples at Cell 3 footprint
    - Presented Area 1, Phase II Supplemental Characterization Package to Agencies on April 27, 1999
  - Natural Resource Restoration
    - Await USEPA approval of Wetland mitigation design
    - Continued discussions with Natural Resource Trustees regarding settlement of Ohio's claim
    - Continued project activities in the On-Property public Access Habitat Area
  - Ecological Research Projects
    - Continued with projects
    - Initiated ecological case study

**May 1999 (Anticipated)**

- Enforceable Milestones
  - None
- Major Work to be Initiated/Continued/Completed
  - On-Site Disposal Facility
    - Complete installation of Interim Leachate Transmission Line
    - Issue the design for Interim Leachate Transmission Line to the Agencies
    - Continue clay screening in the Borrow Area
    - Continue Cell 3 construction
    - Issue revised Systems plan to the Agencies

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE  
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- Soil Characterization and Excavation Project (SCEP)
  - Complete advanced conceptual design of the former production area and initiate design work on Area 3A/4A
  - Begin real-time and physical sampling of Area 8, Phase I
- Natural Resource Restoration
  - Continue discussions with Natural Resource Trustees regarding settlement of Ohio's claim
  - Continue project activities in the On-Property Public Access Habitat Area
- Ecological Research Projects
  - Continue with projects

**OPERABLE UNIT 3 - FACILITIES CLOSURE AND DEMOLITION PROJECT**

April 1999

- Enforceable Milestones
  - Delivered final version of the Thorium/Plant 9 Project Completion Report to the DOE on April 6, 1999; this was forwarded to the Agencies on April 8, 1999
- Major Work Initiate/Continued/Completed
  - Facilities Shutdown Projects
    - Provided Plant 12 Turnover Package to Demolition Projects
    - Completed East and West Pipe Bridges
  - Facility Demolition/Supplemental Environmental Projects
    - Received and incorporated comments for the Plant 6 Implementation Plan
    - Continued work on the development of a Closure Procedure for D&D Projects
    - Revised the Facility Land Use & Master Plot Plan, met due date of April 30, 1999
    - Issued RSEP Project Close-out Report to DOE on April 22, 1999 for forwarding to the Agencies
    - Submitted Plant 5 D&D Implementation Plan to DOE on April 23, 1999 for forwarding to the Agencies
    - Developed database for the estimates of PPE laundry requirements for the years 2000-2002
    - Resolved comments on the Safe Shutdown project Completion Report
    - Issued Plant 6 D&D Implementation Plan to the DOE on April 29, 1999
    - Awarded Plant 5 contract to MACTEC, Inc. of Golden, Colorado on April 22, 1999

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE  
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STUDY/CONSENT DECREE MONTHLY REPORT APRIL 1 THROUGH APRIL 30, 1999**

**May 1999 (Anticipated)**

- Enforceable Milestones
  - Deliver Safe Shutdown Project Completion Report to DOE (due May 4, 1999) for forwarding to Agencies by May 11, 1999
  - Issue Closure Report for HWMU #28 to DOE by due date of May 18, 1999 for forwarding to the Agencies by May 28, 1999
- Major Work to be Initiated/Continued/Completed
  - Facilities Shutdown Projects
    - Continue work on the Burn Pad
  - Facility Demolition/Supplemental Environmental Projects
    - Issue Closure Report for HWMU #28
  - Maintenance/Tank Farm D&D and Water Storage Tank Project
    - Continue D&D activities related to Maintenance/Tank Farm Complex
    - Continue installation of underground utilities related to new Water Storage Tank
    - Install new Water Storage Tank
    - Asbestos abatement and D&D of the Pipe Bridges

**OPERABLE UNIT 4 - SILOS PROJECT**

**April 1999**

- Enforceable Milestones
  - None
- Major Work Initiated/Continued/Completed
  - Finalized the Project Plan for the VitPP Waste disposition project
  - Submitted comments on draft test Reports to Proof of Principle Testing contractors; began review of vendor comment responses
  - Finalized Project Management Plan and QA Plan for the Silo 3 Project
  - Continued construction on the Roads and Electrical Upgrade portion of the Silos Infrastructure Project

**May 1999 (Anticipated)**

- Enforceable Milestones
  - None

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE  
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIATION INVESTIGATION/FEASIBILITY  
STUDY/CONSENT DECREE MONTHLY REPORT APRIL 1 THROUGH APRIL 30, 1999**

- Major Work to be Initiated/Continued/Completed
  - Finalize Safety Basis Implementation Plan for the Silo 3 Project
  - Begin development of Design basis document for the Silo 3 Project
  - Continue evaluation of transportation and disposal alternatives for treated Silo materials
  - Conduct briefings on draft Final test reports from the four Proof of Principle (POP) testing vendors
  - Finalize responses to comments on draft POP test reports
  - Receive draft baseline schedule from Foster Wheeler for the Silos 1 and 2 Accelerated Waste Retrieval Project; conduct alignment meeting with FDF, DOE, and Foster Wheeler counterparts
  - Initiate conceptual design on the Silos 1 and 2 Accelerated Waste Retrieval Project
  - Complete Dome Seal Repair on Silos 1 and 2
  - Complete rock fill on Silo Infrastructure roads

**OPERABLE UNIT 5 - AQUIFER RESTORATION AND WASTEWATER PROJECT**

April 1999

- Enforceable Milestones
  - Submitted monthly NPDES Discharge Monitoring Report to the OEPA on April 14, 1999 covering the month of March
  - Submitted the NPDES Noncompliance Report to the OEPA on April 14, 1999 covering the month of March
  - Met 20 parts per billion (ppb) monthly average uranium discharge to Great Miami River as required by OU5 Record of Decision
- Work Initiated/Continued/Completed
  - Began construction of SWRB area drainage improvement
  - Completed demolition of existing AWWT Lab to support AWWT Lab Expansion. Construction contract was awarded to C-Force on April 5, 1999, Notice to Proceed was issued on April 13, 1999, and Authorization to Mobilize was issued on April 28, 1999
  - Continued construction for the Sludge Removal System at the Stormwater Retention Basin (SWRB) and Biosurge Lagoon (BSL). Work is approximately 50% complete



**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE  
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- Submitted the Draft Operations and Maintenance Master Plan for the Aquifer Restoration and Wastewater Project, Revision 1 (OMMP) to the Agencies on April 15, 1999
- Completed construction of the Ozone Injection System at the SWRB and BSL and turned over to Operations on April 30, 1999

**May 1999 (Anticipated)**

- Enforceable Milestones
  - Submit monthly NPDES Discharge Monitoring Report to the OEPA covering the previous month
  - Meet 20 parts per billion (ppb) monthly average uranium discharge to Great Miami River as required by OU5 Record of Decision
  - Submit monthly 1999 Operating Report for the Re-Injection Demonstration to DOE for transmittal to the Agencies
- Work to be Initiated/Continued/Completed
  - Continue to geoprobe in South Field area
  - Complete construction of the Sludge Removal Systems at the SWRB and Surge Lagoon by the end of May
  - Initiate piping changes at AWWT to reroute filter backwash to the SWRB
  - Complete SWRB area drainage upgrade
  - Initiate procurement actions for AWWT DCS upgrade
  - Initiate preliminary design of additional extraction wells for the South Field Extraction System (SFES)
  - Initiate construction procurement to switch out the IX control panel at the AWWT to the DCS systems

**WASTE MANAGEMENT**

**April 1999**

- Enforceable Milestones
  - None

CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE  
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- Work Initiated/Continued/Completed
  - Mixed Waste Shipping
    - Determination of additional requirements for shipment of wastes to a permitted commercial disposal facility are being made by Waste Characterization personnel. Upon determination, WTP will ship 143 drums to the permitted facility
  - Liquid Mixed Waste Project
    - Continue to evaluate newly generated waste streams for bulking into Batch 9, Batch 10 and Batch 11
    - Completed transfer of first Batch 7 DOE to tanker trailer on April 7, 1999, tanker was shipped to TSCA Incinerator on April 12, 1999
    - Completed transfer of Batch 7, Shipment 2 on April 14, 1999
    - Shipped Batch 7, Shipment 2 to TSCA Incinerator
    - Completed transfer of Batch 7, Shipment 3 on April 20, 1999; shipment was made to TSCA Incinerator on April 21, 1999
    - Completed transfer of Batch 7, Shipment 4 on April 26, 1999; shipment was made to TSCA Incinerator on April 28, 1999
    - Delivery of the fifth Batch 7 DOE tanker was made to the FEMP on April 29, 1999
  - Neutralization/Precipitation/Deactivation/Stabilization (NPDS) Project
    - This project is complete. A letter acknowledging USEPA's concurrence regarding the acceptability of the 61 drums of treated sodium sulfide was forwarded to DOE and will be included in the waste stream profile for NTS review. No further container activities will be conducted until profiles are approved by NTS
  - Thorium Legacy Waste Project
    - Repackaged 30 boxes of Low-Level Waste (LLW) and 13 boxes of Mixed Waste (MW) for shipment to Nevada Test Site (NTS). Total LLW boxes repackaged to date is 242 and total MW boxes is 52
    - Moved boxes of thorium from the Quonset Hut (Bldg. 60) to Bldg. 65 for segregation and repackaging of mixed waste as part of the Thorium Legacy Waste Project
  - RCI Solvent Extraction Project
    - Completed the removal of waste from the OEP tanks to tote tanks to be bulked into Batch 9
  - Organic Treatment Project (OTP)
    - FDF and Materials & Energy Corporation (M&EC) signed a contract for treatment of organic mixed waste. The Statement of Work (SOW) is a reduced scope of treatment, which would include only First Article Testing (of chosen Treatment Technology) on approximately 9 percent of the legacy containers for current fiscal year

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- Completed radiological review of Material Evaluation Forms (MEF) to be treated as part of First Article Testing
- Developed three additional treatment campaigns to include remaining legacy waste inventory. Campaigns will be completed as funds are available
- Hazardous Waste/Recycling
  - Safety-Kleen packaged 9 drums of photochemical waste from the old print shop in the Administration Building. Seventeen (17) drums of labpack chemicals are slated for shipment in May.
  - Attended Ohio Field office Pollution Prevention Task kickoff meeting at Miamisburg

**May 1999 (Anticipated)**

- Enforceable Milestones
  - None
- Work to be Initiated/Continued/Completed
  - Mixed Waste Shipping
    - Ship 143 candidate drums upon final determination of additional requirements for shipment of wastes to a permitted commercial disposal facility
  - Liquid Mixed Waste Project
    - Complete operations decontamination and decommissioning activities and bulk OEP D&D water into Batch 9, weather and volume permitting
    - Initiate sampling request for Batch 9, after bulking of tote tanks and D&D water
    - Initiate Batch 8 shipment planning efforts for commencement of shipping in late May 1999
  - Neutralization/Precipitation/Deactivation/Stabilization (NPDS) Project
    - Because of the completion of the NPDS project, WTP has been working to finalize arrangements to release approximately 60 drums of cement to Permafix, as well as contaminated equipment
    - Finalized the schedule of PermaFix personnel to repackage equipment beginning the week of May 10
  - Thorium Legacy Waste Project
    - Continue repackaging operations
    - Continue to work on storage and treatment plan for MW Thorium
    - Continue moving boxes of thorium from the Quonset Hut (Bldg 60) to Building 65 for segregation and repackaging of mixed waste as part of the Thorium Legacy Waste Project

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- RCI Solvent Extraction Project
  - Complete decontamination and decommissioning activities
- Organic Treatment Project (OTP)
  - Continue, as a cost saving effort, toward disposition of waste streams from the Fire Training Facility through the OSDF rather than through treatment in the OTP
- Hazardous Waste/Recycling
  - Shipment of Labpack is tentatively scheduled for May 3, 1999
  - Repack broken fluorescent lamps
  - Begin reconfiguration of lead-acid battery pallets
  - Issue FY99-00 contract for photochemicals
  - Review final clarifications of laserjet cartridge Request for Proposal, award of contract tentatively scheduled for May 28, 1999
  - Arrange for bulk water treatment chemical pickup, treatment and disposal
  - Provide physical inventory methodology and estimate for Chemical Management Change Proposal